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(54) PHOTOELECTRIC CONVERTER

portionally improved.

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(57) Abstract:

PURPOSE: To obtain a video signal with an excellent S/N by providing a circuit to add the same color picture element signals on an output line to compress data inside a sensor without an external special data compression IC.

CONSTITUTION: A read circuit 16 is provided with a horizontal scanning circuit 1, charge storage capacitors CT_1 - CT_8 , signal transfer MOS transistors (TRs) SWa_1 - SWa_8 , SWc_1 - SWc_8 , and signal summing MOS TRs SWd_1 - SWd_8 . A read circuit 17 has the same circuit configuration as that of the circuit 16 and vertical output lines VL2, VL4,... are different but the read timing is the same. The read circuits 16, 17 set a high level to the signal summing MOS TRs SWd_1 - SWd_8 after the end of 1st and 2nd horizontal line scanning to attain the addition output of the same color picture elements. In the case of two horizontal picture elements, the information quantity for signal processing is halved and the processing speed and the system cost are considerably reduced. Furthermore, the S/N is pro-

